#### REPORT RESUMES

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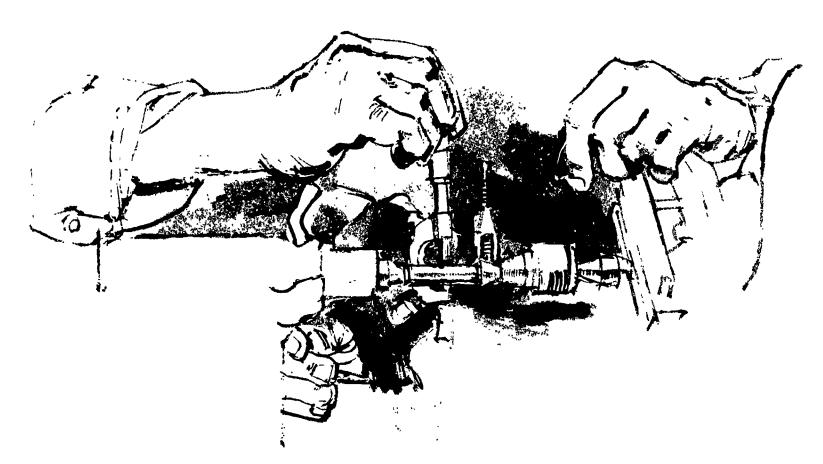
SETTING UP AN APPRENTICESHIP PROGRAM, A STEP-BY-STEP GUIDE IN TRAINING APPRENTICES FOR SKILLED OCCUPATIONS.
MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C.

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DESCRIPTORS- \*APPRENTICESHIPS, \*PROGRAM PLANNING, \*PROGRAM DEVELOPMENT, STANDARDS, PROGRAM GUIDES, GUIDELINES, DIRECTORIES, ADMINISTRATIVE AGENCIES,

THE PURPOSE OF THIS BOOKLET IS TO PROVIDE GUIDELINES FOR ESTABLISHING APPRENTICE PROGRAMS IN ANY INDUSTRY OR OCCUPATION WHICH REQUIRES SKILLS THAT TAKE MORE THAN A FEW MONTHS TO LEARN. TO ESTABLISH A PROGRAM IN A COMPANY WITHOUT A LABOR AGREEMENT, THE PERSONNEL SHOULD (1) ORGANIZE AN APPRENTICESHIP ADVISORY COMMITTEE, (2) DETERMINE ALL KNOWLEDGE AND SKILLS NEEDED FOR THE OCCUPATION, (3) SECURE THE COOPERATION OF WORKERS AND FOREMEN WHO WILL BE PROVIDING THE ON-THE-JOB SUPERVISION, (4) ARRANGE FOR THE NECESSARY RELATED CLASSROOM INSTRUCTION, (5) APPOINT AN APPRENTICESHIP DIRECTOR TO MAINTAIN STANDARDS, AND (6) WRITE A SET OF APPRENTICESHIP STANDARDS. BASIC STANDARDS HAVE BEEN ESTABLSIHED BY THE FEDERAL COMMITTEE ON APPRENTICESHIP. TO CONFORM WITH THESE STANDARDS, A PROGRAM MUST PROVIDE FOR (1) A MINIMUM AGE, (2) A FAIR OPPORTUNITY TO APPLY, (3) SELECTION ON BASIC QUALIFICATIONS ONLY, (4) A SCHEDULE OF WORK PROCESSES, (5) ORGANIZED RELATED TECHNICAL INSTRUCTION, (6) A PROGRESSIVELY INCREASING WAGE, (7) PROPER ON-THE-JOB SUPERVISION, (8) PERIODIC EVALUATION OF PROGRESS, (9) APPROPRIATE RECORDS, (10) EMPLOYEE-EMPLOYER COOPERATION, (11) RECOGNITION OF COMPLETIONS, AND (12) NONDISCRIMINATION IN ALL PHASES. OTHER AREAS COVERED ARE BASIC PROVISIONS WHICH SHOULD BE A PART OF THE PROGRAM, THE ACTUAL JOB INSTRUCTION, THE COST OF APPRENTICESHIP, AND THINGS TO REMEMBER. ASSISTANCE IS AVAILABLE FROM FEDERAL, STATE AND LOCAL AGENCIES FOR EACH STEP OF PROGRAM PLANNING AND OPERATION. THE NAMES AND ADDRESSES OF THE FEDERAL AND STATE AGENCIES, SAMPLE FORMS, AND A LIST OF APPRENTICESHIP OCCUPATIONS ARE GIVEN IN THE APPENDIX. (HC)

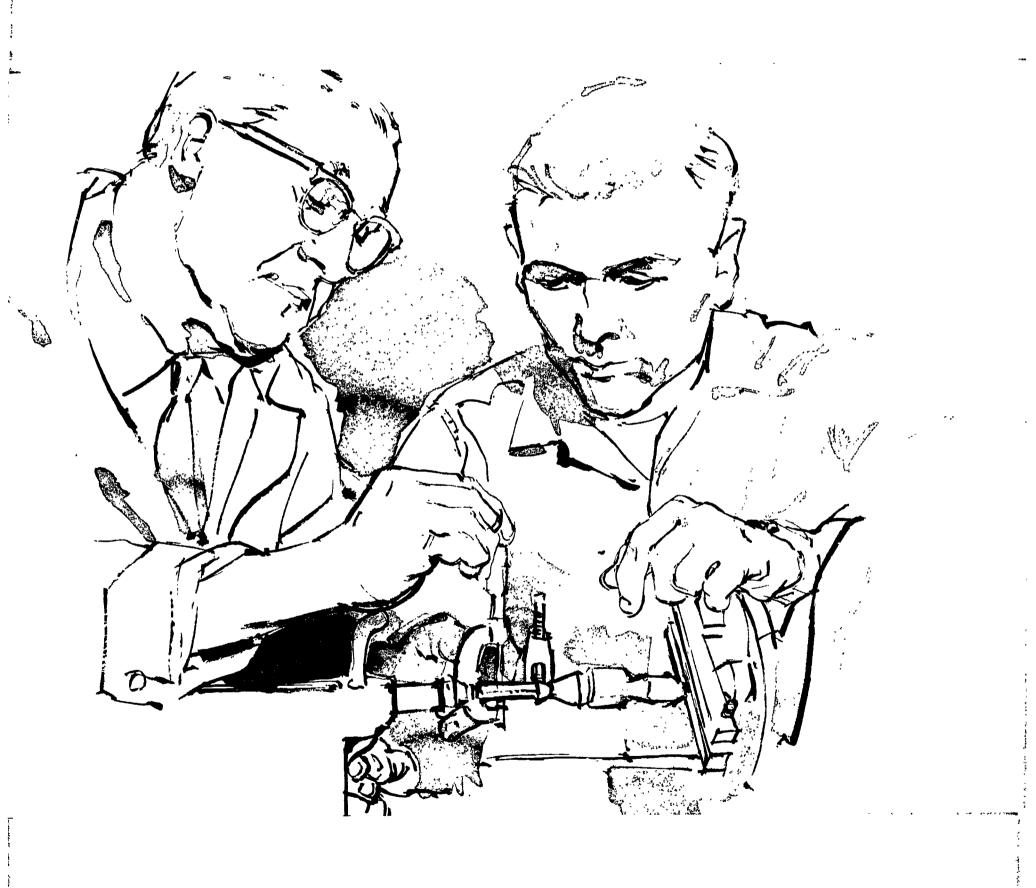


# SETTING UP AN APPRI

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U.S. DEPARTMENT OF LABOR
W. Willard Wirtz, Secretary
MANPOWER ADMINISTRATION
Bureau of Apprenticeship and Training



ERIC Author residents U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE OFFICE OF EDUCATION

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#### SETTING UP AN APPRENTICESHIP PROGRAM

A Step-by-Step Guide In Training Apprentices For Skilled Occupations





#### FOREWORD

With the demand for all kinds of skilled workers increasing more rapidly than the supply, the need for highly trained workers is becoming imperative.

The proven method of training highly skilled workers is through formalized on-the-job training called apprenticeship.

In the United States today, there are approximately 350 occupations, mostly in the construction, printing and metal-working trades, which are learned through apprenticeship.

The purpose of this booklet is to show how apprenticeship may be established in *any* industry and occupation requiring skills that take more than a few months to learn.

New demands on the abilities and experience of workers, who need wider training because of changing methods, materials, and technology, call for a new look into training methods.

Employers and labor organizations must examine their skilled worker needs to see how modern apprenticeship systems can help.

Long-range employee training is the key.

HUGH C. MURPHY
Administrator
Bureau of Apprenticeship
and Training

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### APPRENTICESHIP

IS A METHOD OF TRAINING WORKERS . . .

- ON THE JOB
- FOR A SPECIFIC LENGTH OF TIME
- AT PRE-DETERMINED RATES OF TRAINING PAY
- FOR A SPECIFIED RANGE OF SKILLS
- IN ONE PARTICULAR OCCUPATION
- WITH STATED HOURS OF CLASSROOM INSTRUCTION
- UNDER A WRITTEN AGREEMENT BETWEEN THE TRAINER AND THE TRAINEE

## THE TRAINER IS USUALLY

AN EMPLOYER who needs highly skilled workers in his plant or business.

THE TRAINER COULD BE A LABOR ORGANIZATION with an agreement with management to conduct the training under joint auspices.

The employer may be in any INDUSTRY:

- ... manufacturing
- ... building and construction
- ... transportation
- . . . communications
- ... wholesale and retail
- . . . services

#### AS LONG AS THERE IS A NEED FOR HIGHLY SKILLED WORKERS...

And the employer is willing to INVEST capital and time to obtain this type of worker as part of his regular cost of doing business.



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#### THE TRAINEE, CALLED AN APPRENTICE, IS

An EMPLOYEE subject to the same rules and policies governing other employees in the firm or organization.

He is called an apprentice because he is—

Learning his skill on the job
In a wide range of skills
Over a period of at least 2 years
Under a written agreement with his employer
Going to job-related classes at a vocational school

He is usually selected as an apprentice on the basis of what will be required of him to be a skilled worker in a particular occupation.

This may mean that he should have -

- ... a high school education, or
- ... a knowledge of mathematics, or
- ... ability to use his hands, or
- ... special sense of eye or art, or
- ... good physical health, or
- . . . superior intellect, or
- ... ALL OF THESE ... OR SOME OF THESE.

#### IT DEPENDS ON THE DEMANDS OF THE SKILL HE MUST LEARN.

A program may be set up for one apprentice or a thousand, depending on the need.

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\* HOW IS AN APPRENTICESHIP PROGRAM STARTED?

There are two courses of action open to the employer based on whether his employees are organized or not.

#### IF THERE IS NO LABOR AGREEMENT

- 1. Organize an apprenticeship advisory group, made up of the production manager, one or more foremen, and one or more skilled workers.
- 2. Determine all the knowledge and skill needed for the occupation or occupations to be included in the program.
- 3. Secure the cooperation of the workers and foremen who will be expected to provide the apprentices with the direction and supervision on the job.
- 4. Have the advisory group visit the local vocational education director or school superintendent to arrange for necessary related classroom instruction.
- 5. Appoint an apprenticeship director to maintain the standards of training prescribed by the committee for the occupations involved, length of training, selection procedures, wages, tests, number to be trained, etc.
- 6. Basic details of this program should be written up as a set of apprenticeship standards.

Note: Company personnel or training directors could spearhead this program.

#### IF THERE IS A LABOR AGREEMEN'T

- 1. Discuss the proposed program with the appropriate union official if the training involves employees who would be covered under the collective bargaining agreement.
- 2. Set up a joint apprenticeship committee with the union to administer the program. The committee should have equal representation of labor and management, perhaps three from each.
- 3. The committee will arrange for necessary related classroom instruction with the local school system, usually through the vocational education school director.
- 4. The committee should agree on a set of standards for training, including occupations, length of training, selection procedures, wages, tests, number of apprentices.
- 5. Basic details should be written up and approved as the standards of the apprenticeship program.
- 6. If the union has no interest in the specific apprenticeship plan, the company should obtain a waiver from the union so that it can adopt the alternate course of action.

Note: The union may have a training coordinator or director who could do much of the preliminary work in helping to launch this program.

A list of State vocational education directors is included in the appendix.

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In planning an apprenticeship program, plenty of help is available.

- 1. There are the general patterns for procedures and standards recommended by the Federal Committee on Apprenticeship, which is composed of outstanding representatives of employers and labor and education. It is the policy recommending body to the Secretary of Labor.
- 2. There are the general patterns for procedures and standards recommended by the State apprenticeship agencies (listed in the back of the book) which vary only slightly with the Federal standards.
- 3. There are published standards of apprenticeship in many occupations and industries which may be of invaluable assistance in helping to formulate plans in your field.
- 4. There are the specific experiences of many employers you may know who are involved in on-the-job pre-apprenticeship programs for the first time under provisions of the Manpower Development and Training Act of 1962.
- 5. There are field representatives of the Bureau of Apprenticeship and Training of the U.S. Department of Labor or of some of the State apprenticeship agencies who are ready and willing to give knowledgeable assistance in the development of apprenticeship programs.
- 6. There are vocational educators at the State, county and municipal level who may have invaluable advice to assist in arranging for necessary related instruction courses.



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#### RECOMMENDED MINIMUM STANDARDS

Basic standards for a good apprenticeship program have been established by the Federal Committee on Apprenticeship.

To conform to these minimum standards, an apprenticeship program should contain provisions for the following:

- The starting age of an apprentice to be not less than 16.
- Full and fair opportunity to apply for apprenticeship.
- Selection of apprentices on the basis of qualifications alone.
- A schedule of work processes in which an apprentice is to receive training and experience on the job.
- Organized instruction designed to provide the apprentice with knowledge in technical subjects related to his trade (a minimum of 144 hours per year is normally considered necessary.)
- A progressively increasing schedule of wages.
- Proper supervision of on-the-job training with adequate facilities to train apprentices.
- Periodic evaluation of the apprentice's progress, both in job performance and related instruction.
- The maintenance of appropriate records.
- Employee-employer cooperation.
- Recognition for successful completions.
- Non-discrimination in all phases of apprenticeship employment and training.

#### SOME BASIC PROVISIONS WHICH SHOULD BE PART OF THE

PROGRAM

Here is a guide to help list what should be part of the provisions in any apprenticeship program:

- 1. Occupations—Determine what occupation or types of jobs will be covered by the program. It could be an occupation or trade from the basic list (see appendix p. 24) or it could be a pioneering apprentice-ship endeavor.
- 2. Work Processes—List the major on-the-job training process for each occupation separately. (See example p. 20). Will these processes develop the all-round skilled worker you need?
- 3. Allocation of Work Training Time—Determine the relative difficulty and importance of each work process and allocate the amount of training time, that is, the time the apprentice is expected to work on the particular process or machine to make him proficient. (One suggested formula for time allocation is given on p. 18).
- 4. Term of Apprenticeship—In most traditionally apprenticeable occupations the term of apprenticeship is well recognized. If you do not know what the term of apprenticeship should be, and you do not know of a standard practice for the occupation, list the work processes and set down opposite each process the amount of time it is agreed should be appropriate for each one. When everyone is satisfied about the time, total up the hours and convert into months and years. This should give you a fairly accurate idea of the time required.
- 5. Trainee Qualifications—What qualifications will applicants need to enter your program? These should be clear and objective, equal opportunity should be stressed. Is citizenship a requirement? Will they need a high school education? Or, more to the point, will they need to have studied certain subjects in high school to be able to take your

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training? What about age limitations? Will there be a need to establish minimums and maximums? Any special physical, mental or health requirements because of the occupation involved? (You wouldn't want someone with a chronic skin disease training as a chef, or a prospect without a mathematics background as a sheetmetal mechanic.)

- 6. Related Classroom Instruction—As apprenticeship is most suited to jobs requiring broad skills and knowledge learned best on the job, apprentices will need classroom instruction related to the skill. The Federal Committee has recommended a minimum of 144 hours a year. This is predicated on two hours per night twice a week during a 36-week school year, usually provided by the local public vocational school without charge. It is suggested that the local vocational school coordinator be asked to assist. If there is no local vocational school in the community, contact the State director of vocational education at the State capital for assistance.
- 7. Number of Apprentices—The number of apprentices to be trained is usually determined by a ratio of apprentices to skilled workers (journeymen). Such a ratio is based on the facilities available for employing and training apprentices and on future employment opportunities. Since apprentices learn from the journeymen, the quality of training largely depends on the number of journeymen available to instruct the apprentices and the ability of the journeymen as instructors. It is seldom that a ratio of more than one apprentice to three journeymen is feasible or effective.
- 8. Apprentice Wages—A common method of expressing the apprentice wage or at least of arriving at it, is a percentage of the skilled worker's rate. There should be a progressively increasing schedule



of wages with increases at least every 6 months. The increases should be scheduled throughout the apprenticeship to provide both a monetary incentive and reward for steady progress on the job. During the last period of the apprenticeship, the apprentice should reach 85 to 90 percent of the rate paid a skilled worker in the occupation.

- 9. Supervision of Apprentices—Apprentices are customarily under the immediate instruction and supervision of the skilled worker to whom they have been assigned, and under general supervision of the appropriate foreman. In large apprenticeship programs an apprentice supervisor is designated or employed on a part or full-time basis and assigned the responsibility for carrying out the program. In small programs, this responsibility is basically that of the employer or his deputy.
- 10. Apprenticeship Agreement—Your program should provide for the signing of an agreement of apprenticeship between each apprentice and the proper officer of the establishment for registration purposes with the appropriate State or Federal apprenticeship agencies serving the area where the program is established. The agreement should contain: (a) Home address, and birthday of the apprentice; (b) name of the employer; (c) term of apprenticeship; (d) wage schedule; (e) length of probationary period; (f) an outline of the work processes schedule; (g) number of hours per year the apprentice agrees to attend classes, subjects, and name of the school; (h) any special provisions such as credit allowed for previous experience; (i) signatures of the employer and apprentice. If a union is involved, its approval is necessary; or if a joint apprenticeship committee exists, the agreement would be approved by such a committee. (See p. 26 for examples of apprenticeship agreements.)

#### THE ACTUAL JOB INSTRUCTION

The training program should be established on the basis of what the apprentice must do and what he must know in order to perform the operations of the job in a safe and satisfactory manner.

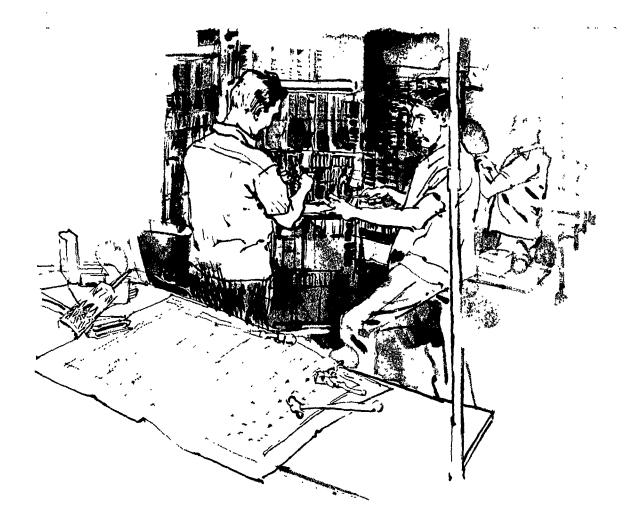
Selecting the skilled workers who will conduct the training and acquainting them with the job to be done is an important first step.

They should be thoroughly skilled in those phases of the occupation they are going to teach.

They should be definitely interested in the progress of apprentices on the job.

In teaching skills the job instructor will ordinarily proceed as follows:

- 1. He will question the apprentice as to what he knows about the operation or process.
- 2. He will demonstrate each operation by slowly performing each new process or step, emphasizing key points and safety precautions.
- 3. He will have the apprentice perform the operation, assisting him if he needs help.
- 4. He will have the apprentice repeat the work several times under observation until satisfied that he can do it alone, safely and well.
- 5. He will continue his supervision and encourage questions, to assure himself that the apprentice is carrying out the methods and processes he has been taught.



#### COST OF PPRENTICESHIP

Because apprentices are paid wages while they learn and because, in larger business establishments, a supervisor of apprentices and one or more instructors may be employed, cost is considered by some potential sponsors as a governing factor in establishing a program.

It is difficult to apply the accountant's yardstick to apprenticeship. But, the Bureau of Apprenticeship and Training has enough circumstantial evidence to indicate that the work apprentices perform as they learn more than pays their way.

#### To find the break-even production time for apprentices:

If it takes 1 hour for a skilled worker to do a certain job of work . . . and

It takes 2 hours for the average beginning apprentice to do the same job of work . . . then

It is taking the apprentice twice as long to do the same work ... or

The beginning apprentice is only 50 percent productive ...

Therefore ...

The beginning wage should be about 50 percent of the skilled worker's wage rate.

The training sponsor applies this rate to the first six months of work by the apprentice.

This same method of determining break-even production is applied for every six-month period.

If, in the second six months, the average apprentice is doing his work in 1 hour and 30 minutes compared to 1 hour for the skilled worker, then the wage rate should be 55 percent of the journeyman rate . . .

And, so on up the scale until the final period of apprenticeship when the wage rate should be about 90 or 95 percent.

IN OTHER WORDS, THE TRAINING SPONSOR IS ONLY PAYING WHAT THE APPRENTICE IS WORTH IN TERMS OF PRODUCTION OR SERVICES.

This method of determination of break-even production time could also be modified by the time lost by the skilled worker assigned to the apprentice for training purposes.



A few important items should be kept in mind when planning an apprenticeship program.

- 1. Equal Opportunity—All application, testing and selection procedures must be conducted on the basis of equal opportunity without regard to race, color, creed, or national origin. So should advancements, transfers, wages, and discharges. This will ensure compliance with Federal and State laws and regulations which provide for nondiscrimination in apprenticeship and unemployment.
- 2. Preemployment Tests—Written and oral evaluations are usually made by the management, the union, or by the joint apprenticeship committee (if such is established). Aptitude testing is available through the local office of the State employment service if desired by the program sponsor. School records should be checked. The main purpose of the tests is to help screen out individuals who do not have the aptitude, solid interest, and other personal qualities necessary to succeed in the occupation.
- 3. Apprenticeship Committees—The decision as to whether there is to be a joint apprenticeship committee rests solely with the employer and the union. Its functions are decided in the same way. These might include: general supervision of the program, selection and enrollment of apprentices, arranging for their employment with the employer, if more than one employer is involved (in cases of apprenticeship programs sponsored through employer associations), keeping the employer and the union informed on the progress of apprentices, and checking and evaluating the performances of individual apprentices.
- 4. Credit for Previous Experience—Most programs should carry a provision on credit for experience in the occupation or trade related skills. It could be in this language: "The apprentice's experience in the occupation will be evaluated and appropriate credit will be allowed on the term of

#### THINGS TO REMEMBER

apprenticeship for such experience. The apprentice allowed credit for previous experience will be advanced to the wage level appropriate to the amount of credit."

- 5. Certificate of Completion—A provision is customarily included stating that each apprentice shall be awarded, after he has satisfactorily completed his apprentice training, a Certificate of Completion of Apprenticeship. In connection with registered programs, such a certificate is available from the State apprenticeship agency or from the Bureau of Apprenticeship and Training, if a State agency is not established in your State.
- 6. Registration of Programs—Apprenticeship programs and apprenticeship agreements are registered with the State apprenticeship agency or the Bureau of Apprenticeship and Training if they meet their standards. Registration is entirely voluntary. By registration, however, a contribution is made to the national pool of information on apprenticeship programs and the number of apprentices in training. The Bureau maintains a current record of trends, statistics, and data on training—information of value to employer, labor and to industry as a whole.
- 7. Minimum Wage Laws—If your apprentices are subject to wage and hour provisions of the Fair Labor Standards Act, it will be necessary to start apprentice wage rates at least at the minimum statutory rate. Related supplemental classroom instruction does not include time spent by the apprentice in performing his regular duties. Thus, it will be necessary to determine beforehand in the written agreement whether (1) the apprentice will be paid for classroom attendance but the hours not considered hours of work, or (2) the apprentice will attend class without being paid or the hours counted, or (3) the apprentice will attend class as part of the regular workweek and will be paid his regular rate.

### APPENDIX



## HOW TO ALLOCATE WORK TIME

What will be the number of work hours for the apprentice during his term? Will it be 8,000, 7,600, or 6,000 hours?

For an example of how to allocate worktime, let us assume that there are 12 different work processes or major operations. Some of these processes may require more training time than others.

On a blackboard or large sheet of paper list each of the work processes. Select the one in which the apprentice can become proficient in the shortest time and place the figure (1) next to it. Now compare each of the other processes to the one you have selected as taking the shortest time. Some you will decide to be twice as difficult, others three times as difficult, others to have about the same difficulty. As you decide on the relative difficulty of each, place a figure next to the process such as 2, 3, 4, or 1. These can be changed as you develop the allocations of time.



When you have finished, your board will look about like this:

Process A - 1	Process E - 2	Process I-3
Process B-2	Process F-1	Process J-1
Process C-2	Process G-3	Process K-1
Process D-4	Process H-2	Process L-3

Now carefully determine the number of hours it will take to train the apprentice in the shortest work processes, A, F, J or K. Let us assume you arrive at a figure of 320. Multiply 320 by the numbers you have given each of the processes. The example is now complete:

Process A - 320	Process E - 640	Process I - 960
Process B - 640	Process F - 320	Process J - 320
Process C - 640	Process G - 960	Process K - 320
Process D-1280	Process H - 640	Process L - 940
		8,000 hours

Your program of training, in this case, will take 8,000 hours or approximately four years since the maximum work hours in one year at 40 hours per week for 52 weeks is 2,080.

After the hours of work are distributed as indicated in the example it may be desired to add to some and reduce the amount of time for others.



Apprenticeship programs usually list all the various work processes and assign each process an approximate number of hours for learning. They also usually contain a statement either preceding or following the schedule which states something like the following:

"The order in which the work training experience is obtained need not necessarily follow the sequence of the schedule of work processes, but during the term of apprenticeship the apprentice will be given at least the minimum number of hours of experience scheduled for each process."

The following schedule for an operating engineer apprentice learning how to be a heavy duty repairman is illustrative of a detailed schedule:

#### SCHEDULE OF WORK PROCESS HEAVY DUTY AUTOMOTIVE REPAIRMAN

Approximate number of hours

#### EXAMPLE OF SCHEDULE OF WORK PROCESSES

1.	Cleaning and Inspecting the Parts of All Types of Equipment
2.	Cylinder Heads
	(a) Checking and inspecting heads
	(b) Replacing valve guides
	(c) Removing and replacing valve seats
	(d) Reaming valve guides
	(e) Grinding valve seats with hard-seat grinder
	(f) Lapping valves
	(g) Checking valves with dial indicator
	(h) Installing injector tubes or brass
	(i) Replacing Welsh plugs and water test head
	(j) Rebushing rocker-arms and reaming bushings
	(k) Checking and replacing rocker-arm rollers

•	proximate umber of
(1) Torquing cylinder head bolts	hours
(m) Use of compounds on head gaskets	••
(n) Torquing injectors and adjustments	
	••
•	
(a) Removing and installing cylinder sleeves	•
(b) Cleaning and checking water passages	•
(c) Checking counterbores for sleeves	
(d) Recutting and straightening counterbores	
(e) Removin and cuttive vlinder	
(f) ani	
	••
Rung and rvicing of cylinders, valves and power	**
control units	ľ
	••
11. Welding	
(a) Acetylene—Cutting, brazing and welding	••
(b) Electric—Cutting and welding	••
12. Repair and Maintenance of Self-Propelled and Stationar	y
Equipment Exclusive of Engines	
(a) Use of proper oils, greases, tools and shop equipment	
(b) Maintenance and repair of the various types of equipmen	
used by the industry	U
used by the industry	••
TOTAL HOURS—6,000.	

If accumulated experience indicates that changes will be to the advantage of the empoyer and the apprentice, the above schedule may be changed. Full experience in all the principal trade processes shall be provided the

apprentice in every case.



Suggested form to be used in determining the amount of credit to be allowed for previous trade experience.

All the different processes of the trade should be set down in column (1). The number of work-experience hours should be set down in column (2).

# HOW TO DETERMINE CREDIT FOR EXPERIENCE

	Filled in by JAC or employer 1 Filled in by applicant			Filled in by JAC or employer	
Trade: Machinist  Term of Apprenticeship: 8,000 hours  Detailed Trade Breakdown	Number of hours required for each process	Approxi- mate hours spent in training for each operation	Approxi- mate hours spent do- ing each operation on actual job assign- ment	Applicant's estimate of his competence on each operation (circle one) a—limited, b—moderate, c—broad	Prelimi- nary esti- mate of remaining appren- ticeship term
(1)	(2)	(3)	(4)	(5)	(6)
Drill press operations:  Drilling Filing Polishing Counterboring Countersinking, etc Lathe operations: Facing Undercutting Drilling, etc				a b c a b c a b c a b c a b c a b c a b c	

<sup>&</sup>lt;sup>1</sup> JAC means Joint Apprenticeship Committee.

#### CARPENTER APPRENTICE RECORDKEEPING REPORT

Name			Ad	dress				City		_
Employer			Address				City			
Month	Year 19	Employer or foreman verify and sign above Give job address a			s above					
Total hours required	850	1,500	1,200	1,700	500	750	1,000	500		
and and the second section of the second section of the second section section section sections.	A	В	C	D	E	F	G	H	Hours of re- lated	In- struc-
Schedule	Form build- ing	Rough fram- ing	Out- side finish- ing	Inside finish- ing	Hard- ware fitting	Lay- out	Care of tools	Mis- cel- lane- ous proc- esses	in- struc- tion	tors verifi- cation
Hours carried for- ward										
Date										
Monday									Total	
Total hours to date				~						

Remarks can be written on reverse side

Enter grand total above



The following occupations have training periods of from two to six years. Counting specialized jobs under the major trades listed below, there are approximately 350 in the United States which are being learned through periods of apprenticeship. (The numbers after the names indicate the years required).

# SOME OCCUPATIONS WHICH ARE LEARNED THROUGH PPRENTICESHIP

Aircraft Fabricator (3-4) Airplane Mechanic (3-4) Arborist (3) Asbestos Worker (4)

Automotive Body Repairman (3-4)

Automotive Mechanic (3-4)
Baker (3)

Barber (2)
Blacksmith (4)
Boilermaker (4)
Bookbinder (2-4)
Brewer (2-3)
Bricklayer (3)

Butcher-Meat Cutter (3) Cabinetmaker-Millman (2-4)

Candy Maker (3-4) Canvas Worker (3) Carman (4)

Carpenter (4)
Cement Mason (3)

Cook (3)

Cosmetician (2)

Dairy Products Maker (2-3) Draftsman-Designer (3-5)

Electrical Worker (4-5) Electroplater (3-4) Electrotyper (5-6) Engraver (4-5)

Fabric Cutter (3-4)

Farm-Equipment Mechanic (3-4)

Floor Coverer (3-4) Foundryman (2-4) Furrier (3-4)

Glazier-Glass Worker (2-4)

Heat Treater (4)
Iron Worker (2-4)
Jeweler (2-4)
Lather (2-4)
Lead Burner (5)
Leather Worker (3-4)

Lithographer (4-5) Machinist (4) Mailer (4-5) Maintenance Mechanic Repairman (3-6)Metal Polisher-and-Buffer (3-4) Millwright (4) Model Maker (4) Musical-Instrument Mechanic (3-4) Operating Engineer (3-4) Optical Technician (4) Orthopedic Prosthetic Technician (3-4)Painter-Decorator (2-3) Patternmaker (5) Photoengraver (5-6) Photographer (3) Plasterer (3-4) Plate Printer (4) Plumber-Pipefitter (4-5) Printer (5-6)

Printing Pressman (4-5) Rigger (2-4) Roofer (2-3) Rotogravure Engraver (5-6) Sheet-Metal Worker (3-4) Sign, Scene-and-Pictorial Artist (3-4)Silversmith (3-4) Stationary Engineer (3-4) Stereotyper (5-6) Stone Worker (2-4) Stonemason (3) Tailor (4) Telephone Worker (4) Terrazzo Worker (3) Textile Technician (2-4) Tile Setter (3) Tool-and-Die Maker (4-5) Upholster (3-4) Wallpaper Craftsman (4-5) Wire Weaver (3-4)



s	OCIAL	SECURITY	No.
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#### APPRENTICESHIP AGREEMENT Between Apprentice and Employer

The employer and apprentice whose signatures appear below agree to these terms of apprentices hip:

The employer agrees to the nondiscriminatory selection and training of apprentices in accordance with the Equal Opportunity Standards stated in Section 30.3 of Title 29, Code of Federal Regulations,

Part 30; and in accordance with the terms and conditions of the which are made a part of this agreement.

(Name of Apprenticeship Standards)

The apprentice agrees to apply himself diligently and faithfully to learning the trade in accordance with this agreement.

Term of apprenticeship

Trade	Term of apprenticeship (Hours or Years)
Probationary period	Credit for previous experience
Term remaining	Date the apprenticeship begins
This agreement may be terminated to the Registration Agency.	by mutual consent of the parties, citing cause (s), with notification
(Signature of Apprentice)	
(Address)	(Address)
(Apprentice's Birth Date)	(Signature of Authorized Official)
(Parent or Guardian)	
Approved by	Joint Apprenticeship Committee.
Date	(Sognature of Chaliman or Secretary)
Registered by	(Name of Registration Agency)
Date	by (Signature o. Authorized Official)



Secial Security No.

#### APPRENTICESHIP AGREEMENT

Between Apprentice and Joint Apprenticeship Committee

THIS AGREEMENT, entered into this	s day of	196
between the parties to	(Name of local appears caskin standards)	
represented by the Joint Apprenticeship Co		
(Name of apprentice), born (Mor	nth) (Day) (Year) hereinafter	referred to as the
APPRENTICE, and (if a minor)	(Name of parent or guardian), hereinafter	referred to as his
WITNESSETH THAT:		
The Committee agrees to be responsible	e for the selection, placement and training	of said apprentice
in the trade oferation said apprentice agrees diligently an period of apprenticeship, in accordance w standards referred to herein are hereby income.	nd faithfully to perform the work of said with the regulations of the Committee. I	l trade during the The apprenticeship
Term of apprenticeship	Probationary period	
Credit for previous trade experience	Term remaining	•
Other conditions		
This agreement may be terminated by notification to the registration agency.	by mutual consent of the signatory par	ties, upon proper
(Signature of Apprentice)	(3010) Apprenticeship Committee)	, Chairman
(Address)	(Joint Apprenticessip Committee)	, Secretary
(Parent or guardian)	**************************************	
Registered by	(Name of political annual)	***************************************
	(Maine of registration agency)	
Date By		*****************************
	(Signature and title of authorized officia	BAT 47 (Rev.)

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# FIELD OFFICES BUREAU OF APPRENTICESHIP AND TRAINING

Alabama Birmingham 1931 9th Avenue S. Mobile Room 324 Federal Bldg. Montgomery 474 S. Court Street Alaska Anchorage Room 46, P.O. Building Arizona 1330 N. First Street Phoenix 130 S. Scott Avenue Tucson Arkansas Little Rock 700 W. Capital Avenue California Los Angeles 300 N. Los Angeles Street Oakland 354 21st Street 2330 Auburn Boulevard Sacramento 1927 Fifth Avenue San Diego San Francisco Room 10457, 450 Golden Gate Avenue Colorado Denver 730 17th Street Room 206 P.O. Building

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Connecticut
Bridgeport
Hartford
New Haven
District of
Columbia
Delaware
Wilmington

Rm. 321 Post Office Bldg.

1145 19th Street, N.W.

83 Fairfield Avenue

983 Main Street

640 Chapel Street

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(Bellwood)		Augusta	4 Union Street
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Lansing	18525 S. Torrence Ave.	Portland	76 Pearl Street
<b>Pe</b> oria	Room 319 First National	Maryland	
	Bank Building	District of	1111 20th Street, N.W.
Rockford	401 S. Main Street	Columbia	
Rock Island	211 19th Street	(Suburban)	
<b>Springfield</b>	600 E. Monroe Street	Baltimore	103 S. Gay Street
Wood River	15 E. Ferguson Avenue	Hagerstown	3 S. Potomac St <b>ree</b> t



Massachusetts Boston Lawrence Springfield	18 Oliver Street 301 Essex Street 293 Bridge Street	Nevada Las Vegas Reno New Hampshire	2301 E. Sahara Avenue 300 Booth Street
Worcester Michigan Battle Creek Detroit Grand Rapids Lansing Marquette Saginaw	<ul> <li>500 Post Office Building</li> <li>74 N. Washington Avenue</li> <li>234 State Street</li> <li>160 Ionia Avenue, N.W.</li> <li>106 W. Allegan Street</li> <li>Room 232 Federal Bldg.</li> <li>105 N. Jefferson Avenue</li> </ul>	Manchester New Jersey New Brunswick Newark Trenton New Mexico Albuquerque Roswell	Room 208-A P.O. Bldg.  96 Bayard Street Room 424 Federal Bldg. Room 405 Federal Bldg.  517 Gold Avenue, S.W. 413 N. Virginia Street
Minnesota Duluth Rochester St. Paul Mississippi Gulfport Jackson Missouri Kansas City St. Louis	Room 204 Federal Bldg. Room 205 P.O. Building 2147 University Avenue  1319 24th Avenue Room 704 Milner Building  911 Walnut Street 208 N. Broadway	New York Albany Binghamton Buffalo	Room 406-408 New P.O. Building Room 314 P.O. Building 69 Niagara Square . 320 Fulton Avenue 45 Broadway Room 211 U.S. Post Office & Court House Building 500 S. Salina Street
Montana Butte Great Falls Helena Nebraska Omaha	Rm. 310 Fed. Office Bldg. 510 First Avenue, North Room 1 S. Annex Power Block 214 N. 17th Street	North Carolina Charlotte Greensboro Raleigh Salisbury North Dakota Fargo	316 E. Morehead Street Room 433 P.O. Building 1330 Saint Mary's Street 132 No. Main Street 510 Fourth Avenue, No.



Ohio		Rhode Island	
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Canton	1020 Market Avenue, No.	South Carolina	
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Columbus	22 E. Gay Street	Spartanburg	273 S. Church Street
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Youngstown	9 W. Front Street	Tennessee	
Oklahoma		Chattanooga	900 Georgia Avenue
Oklahoma City	Post Office Building	Kingsport	320 W. Center Street
•	Third & No. Robinson	Knoxville	301 Cumberland Avenue
Tulsa	430 S. Boulder Street	Memphis	167 N. Main Street
Oregon		Nashville	801 Broad Street
Eugene	835 Park East	Texas	
Portland	520 S.W. Morrison Street	Amarillo	804 Bryan Street
Pennsylvania		Austin	300 E. 8th Street
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Altoona	1216-18 11th Avenue	Corpus Christi	205 N. Chaparral Street
Erie	Room 316 Federal Bldg.	Dallas	1416 Commerce Street
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	try Bldg., 7th & For-	Houston	515 Rusk Street
	rester Streets	Longview	222-24 E. Methrin Street
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_	House Building	Waco	800 Franklin Avenue
Pittsburgh	Rm. 1102 New Fed. Bldg.	Fort Worth	100 N. University Drive
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York	Rm. 221 Post Office Bldg.	Burlington	P.O. Box 966, Fed. Bldg.

Virginia		Wisconsin	
Norfolk	101 East Main Street	LaCrosse	Room 214 P.O. Building
Richmond	400 N. Eighth Street	Madison	Room 585, 4802 Sheboy-
Washington			gan Avenue
Seattle	506 Second Avenue	Milwaukee	819 N. 6th Street
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Tacoma	Room 412 P.O. Building	Racine	429 Main Street
West Virginia			
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- Region I—(Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont)

  Region I—(Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont)
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- Region II—(New Jersey, New York, Puerto Rico, Virgin Islands)
  New York City, New York (10001), 906 Parcel Post Building, 341 Ninth
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- Region III—(Delaware, Maryland, North Carolina, Pennsylvania, Virginia, West Virginia)
  Chambersburg, Pennsylvania (17201), Room 321 Professional Arts Building.
- Region IV—(Alabama, Florida, Georgia, Mississippi, South Carolina, Tennessee)
  Atlanta, Georgia (30309), Room 525, 1371 Peachtree Building, 17th and Peachtree Street, N.E.
- Region V—(Kentucky, Michigan, Ohio) Cleveland, Ohio (44114), 948 Engineers Building, 1365 Ontario Street.
- Region VI—(Illinois, Indiana, Minnesota, Wisconsin) Chicago, Illinois (60604), 219 S. Dearborn Street.

## REGIONAL

- Region VII—(Iowa, Kansas, Missouri, Nebraska, N. Dakota, S. Dakota) Kansas City, Missouri (64106), 2811 Federal Office Building, 911 Walnut Street.
- Region VIII—(Arkansas, Louisiana, New Mexico, Oklahoma, Texas) Dallas, Texas (75201), 411 N. Akard Street.
- Region IX—(Colorado, Montana, Utah, Wyoming)
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- Region X—(Arizona, California, Nevada, Hawaii) San Francisco, California (94102), Room 10451, 450 Golden Gate Ave., P. O. Box 36017.
- Region XI—(Oregon, Washington, Alaska, Idaho)
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Arizona Apprenticeship Council, 1623-B West Adams, Phoenix, Ariz. 85007

Division of Apprenticeship Standards. Department of Industrial Relations, Department of Labor, San Francisco, Calif. 94102

Colorado Apprenticeship Council, c/o Industrial Commission, Denver, Colo. 80203

Apprentice Training Division, Labor Department, Wethersfield, Conn. 06109

Training Council, Department of Labor and Industry, Wilmington, Del. 19801

District of Columbia Apprenticeship Council, 1145 19th Street, N.W. Washington, D.C. 20036

Department of Apprenticeship, Florida Industrial Commission, Tallahassee, Fla. 32304

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Kansas Apprenticeship Council, Department of Labor, Topeka, Kans. 66603\*

Kentucky State Apprenticeship Council. Frankfort, Ky. 40601

Division of Apprenticeship, Department of Labor. Baton Rouge, La. 70804

Maine Apprenticeship Council, Department of Labor and Industry State Office Bldg., Augusta, Maine 04330

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Division of Voluntary Apprenticeship, Department of Labor and Industry, St. Paul, Minn. 55101

Montana Apprenticeship Council, Department of Labor and Industry, Helena, Mont. 59601

#### STATE PPRENTICESHIP AGENCIES

(Including the District of Columbia, Puerto Rico, and the Virgin Islands)

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Oregon Apprenticeship Council,

Harrisburg, Pa. 17120

Apprenticeship Division. Department of Labor, San Juan, P.R. 00908

Rhode Island Apprenticeship Council, Department of Labor, Providence, R.I. 02903\*

Utah Apprenticeship Council, **Industrial Commission** Salt Lake City, Utah 84111

Vermont Apprenticeship Council, Department of Industrial Relations, Montpelier, Vt. 05601 Division of Apprentice Training, Department of Labor and Industry, Richmond, Va. 23214

Ohio State Apprenticeship Council, Washington Apprenticeship Council, Department of Industrial Relations, Department of Labor and Industries, Olympia, Wash. 98501 Apprenticeship Division, Wisconsin Industrial Commission, Madison, Wis. 53203

Virgin Islands Apprenticeship Council, Department of Agriculture and Labor, Department of Labor and Industry, Christiansted, St. Croix, V.I. 00820

All agencies, with the exception of Kansas and Rhode Island, operate under apprenticeship and/or training laws enacted by the legislature. Agencies in Kansas and Rhode Island function under executive order of the governor.

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NOTE: Unless otherwise indicated, Executive Officers and State Directors of Vocational Education should be addressed at the State Department of Education.

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